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Lynne M. Milliot
Lynne M. Milliot

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Inventor:

Martin MALLINSON

Application No. 10/621,504

Confirmation No. 2600

Filed: 17 July 2003

Title: **DEVICE AND METHOD FOR SIGNAL
PROCESSING**

Group Art Unit: 2644

Examiner: Andrew C. FLANDERS

Customer No. 22470

COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Enclosed with this statement is a Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Also enclosed is a copy of a PCT Search Report mailed 28 February 2005 for a corresponding PCT Application.

Also enclosed with this statement is a copy of each cited document as required by 37 C.F.R. 1.98. The exception to this, in accordance with the 05 August 2003 Official Gazette Notice in which the USPTO waives the requirement for submitting copies of U.S. Patent and Publications for cases filed after 30 June 2003, is that copies of U.S. Patent documents and copies of U.S. Patent publications are not being submitted.

This statement should be considered under 37 C.F.R. 1.97(c) because it is being filed before the mailing date of a FINAL office action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first, AND it is accompanied by the \$180 fee set forth in 37 C.F.R. 1.17(p).

Fee Authorization. The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (HBES 1000-1). A duplicate copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 14 June 2005
By: 
Ernest J. Beffel, Jr.
Registration No. 43,489

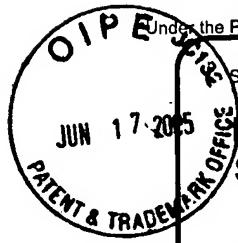
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

2

Complete if Known

Application Number	10/621,504
Filing Date	17 July 2003
First Named Inventor	Martin MALLINSON
Group Art Unit	2644
Examiner Name	Andrew C. FLANDERS

Attorney Docket Number

HBES 1000-1

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	2004/0165661			Braun	08-26-2004	
A2	6795004			Masuda et al.	09-21-2004	
A3	5559467			Smedley	09-24-1996	
A4	5974089			Tripathi et al.	10-26-1999	
A5	6344811			Melanson	04-05-2002	
A6	6466087			Ruha	10-15-2002	
A7	6794930			Nurminen	09-21-2004	
A8						
A9						
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FOREIGN PATENT DOCUMENTS

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Application Number	107621,504
Filing Date	17 July 2003
First Named Inventor	Martin MALLINSON
Group Art Unit	2644
Examiner Name	Andrew C. FLANDERS

Attorney Docket Number HBES 1000-1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	JORGE VARONA, "Power Digital-to-Analog Conversion Using Sigma-Delta and Pulse Width Modulations," ECE1371 Analog Electronics II, ECE University of Toronto, pp. 1-14, 2001.	
	C2	ERIK BRESCH and WAYNE T. PADGETT, "TMS320C67-Based Design of a Digital Audio Power Amplifier Introducing Novel Feedback Strategy," Rose-Hulman Institute of Technology, Electrical and Computer Engineering Department, pp. 1-16, 1999.	
	C3	K. P. SOZANSKI, R. STRZELECKI and Z. FEDYCZAK, "Digital Control Circuit for Class-D Audio Power Amplifier," Power Electronics Specialists Conference, PESC 2001 IEEE 32nd Annual, volume 2, pp. 1245-1250, 2001.	
	C4	MORTEN JOHANSEN and KARSTEN NIELSEN, "A Review and Comparison of Digital PWM Methods for Digital Pulse Modulation Amplifier (PMA) Systems," 107th Convention of Audio Engineering Society, September 24-27, 1999, New York, New York.	
	C5	THOMAS TAUL, KARSTEN NIELSEN and MICHAEL A.E. ANDERSEN, "Comparing Nonlinear with Linear Control Methods for Error Correction in Switching Audio Amplifier Output Stages," 104th Convention of Audio Engineering Society, May 16-19 1998, Amsterdam.	
	C6	KARSTEN NIELSEN, "MECC - A Novel Control Method for High End Switching Audio Power Amplification," 105th Convention of Audio Engineering Society, September 26-29, 1998, San Francisco, California.	
	C7	CRILLES BAK RASMUSSEN, "Hybrid Digital-Analog Feedback Audio Amplifiers," 2004 Dissertation, in cooperation with Bang & Olufsen ICEpower A/A, Lyngby 2004, Eksamensprojekt, NR. IMM-Thesis-2004-68. (NOT PRIOR ART)	
	C8	M. O. J. HAWKSFORD, "Time-Quantized Frequency Modulation, Time-Domain Dither, Dispersive Codes, and Parametrically Controlled Noise Shaping in SDM," J. Audio Eng. Soc., Vol. 52, No. 6, pp. 587-617, June 2004. (NOT PRIOR ART)	
	C9	D. WEILER, P.A. NIELSEN, D. HAMMERSCHMIDT, O. MACHUL and B. J. HOSTICKA, "Single Bit Sigma-Delta Modulator with Nonlinear Quantization for μ -Law Coding," 23rd European Solid-State Circuits Conference, Southampton, United Kingdom, 16-18 September 1997.	

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